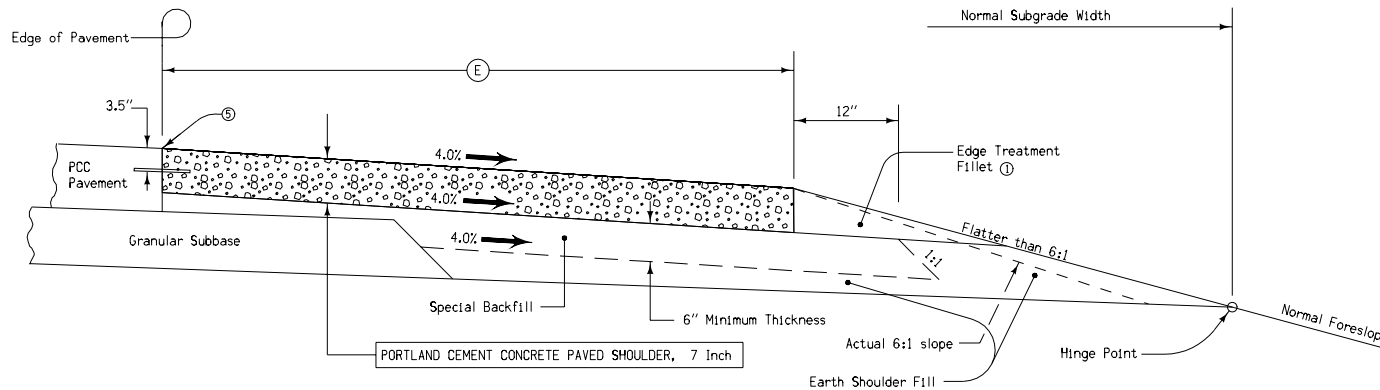


**TYPICAL SECTION
HOT MIX ASPHALT PAVED SHOULDER**



**TYPICAL SECTION
P.C. CONCRETE PAVED SHOULDER**

GENERAL NOTES:

Details indicated hereon illustrate the general requirements for construction of a paved shoulder consisting of Hot Mix Asphalt or P. C. Concrete.

All joints shall be sealed as specified in Section 2301.

Any special shaping of subgrade necessary, prior to construction of paved shoulder, shall be accomplished as directed by the Engineer. Any material removed due to this special shaping shall be disposed of at the direction of the Engineer.


The subgrade beneath the Paved Shoulder Alternatives shall be constructed in conformance with specifications for Natural Subgrade. "Special Backfill" material shall be paid for as specified in Section 2102. Payment shall be based on a uniform 6 inch thickness. The thickness may be exceeded at the Contractor's option with no compensation for the additional material.

For rumble strip details, see Standard Road Plan RH-41D.

Joint construction, rumble strip, special shaping, earth shoulder fill, and furnishing and finishing material for edge treatment fillet are incidental.

- ① Refer to the appropriate Detail Drawing.
- ② Rates indicated are for design purposes and may be adjusted at time of construction if so directed by the Engineer. Quantities listed are for one shoulder per station.
- ③ Quantities shown are based on a design weight of 145 lbs/cu. ft. for Hot Mix Asphalt with an asphalt content of 6.0% utilizing a 3/4" aggregate mix size with 45% crushed particles, and no special aggregate frictional requirements. N_{ini} , N_{des} , and N_{max} shall be 7, 68, and 104 respectively regardless of design ESALs for the pavement. Asphalt Binder PG58-28 shall be utilized with this mix.
- ④ Includes quantity for tack coating vertical face of adjacent pavement prior to placement of any base material. Tack Coat estimated at one (1) application at 0.05 gal/sq. yd.
- ⑤ "BT-1" or "BT-3" joint. Refer to Standard Road Plan RH-51.

DESIGN QUANTITY TABLE ②																			
SHOULDER SURFACE AREA (HMA and PCC)				HMA SHOULDER ③												PCC SHOULDER			
				HOT MIX ASPHALT				ASPHALT BINDER				TACK COAT ④				VOLUME			
Sq. Yds.				Tons				Tons				Gallons				Cu. Yds.			
E=4'	E=6'	E=8'	E=10'	E=4'	E=6'	E=8'	E=10'	E=4'	E=6'	E=8'	E=10'	E=4'	E=6'	E=8'	E=10'	E=4'	E=6'	E=8'	E=10'
44.44	66.67	88.88	111.11	20.94	30.61	40.28	49.95	1.21	1.77	2.33	2.89	2.91	4.02	5.13	6.24	8.64	12.96	17.28	21.59



Iowa Department of Transportation
Highway Division

STANDARD ROAD PLAN

REVISION: Show flatter than 6:1 slope and actual 6:1 slope.

William J. Allen
APPROVED BY DESIGN METHODS ENGINEER

RH-41A

REVISION NO.
18

REVISION DATE
10-29-02

PAVED SHOULDER ALTERNATES
(8" HMA AND 7" PCC)